

10

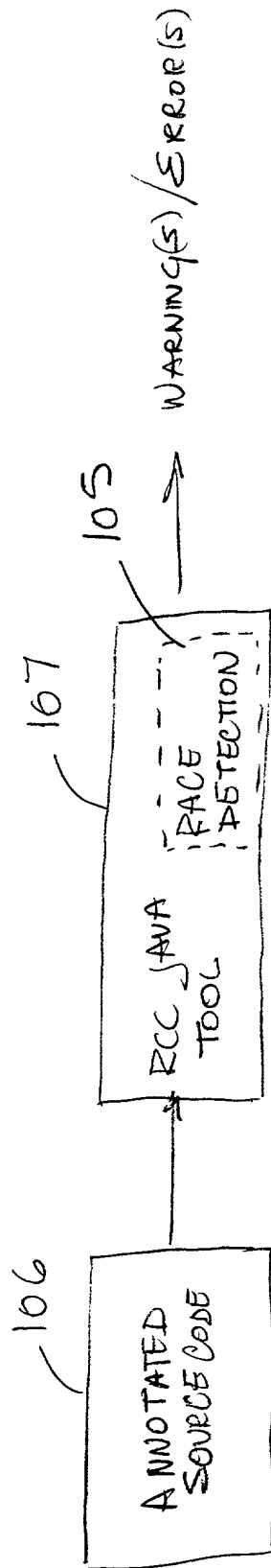
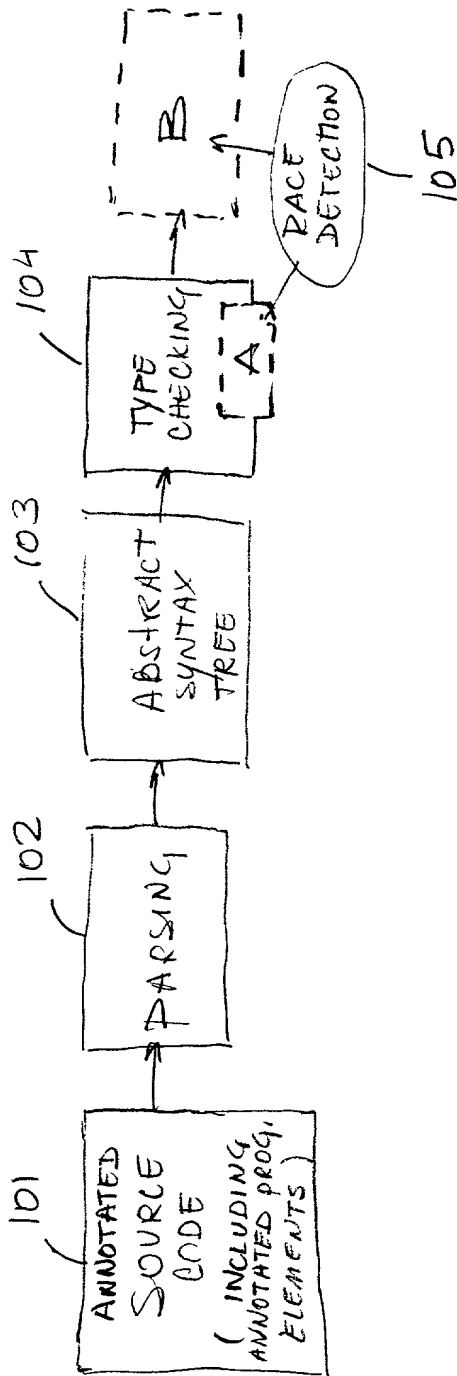
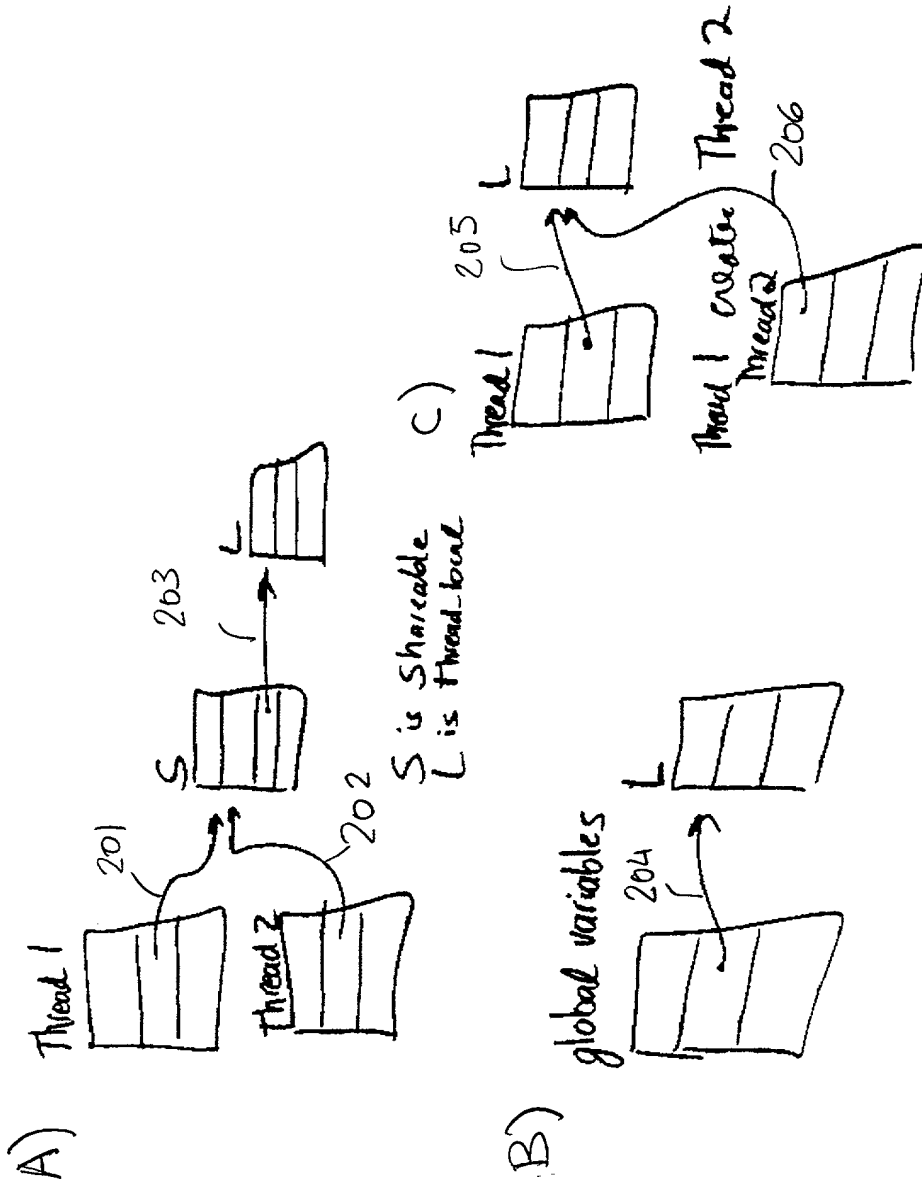
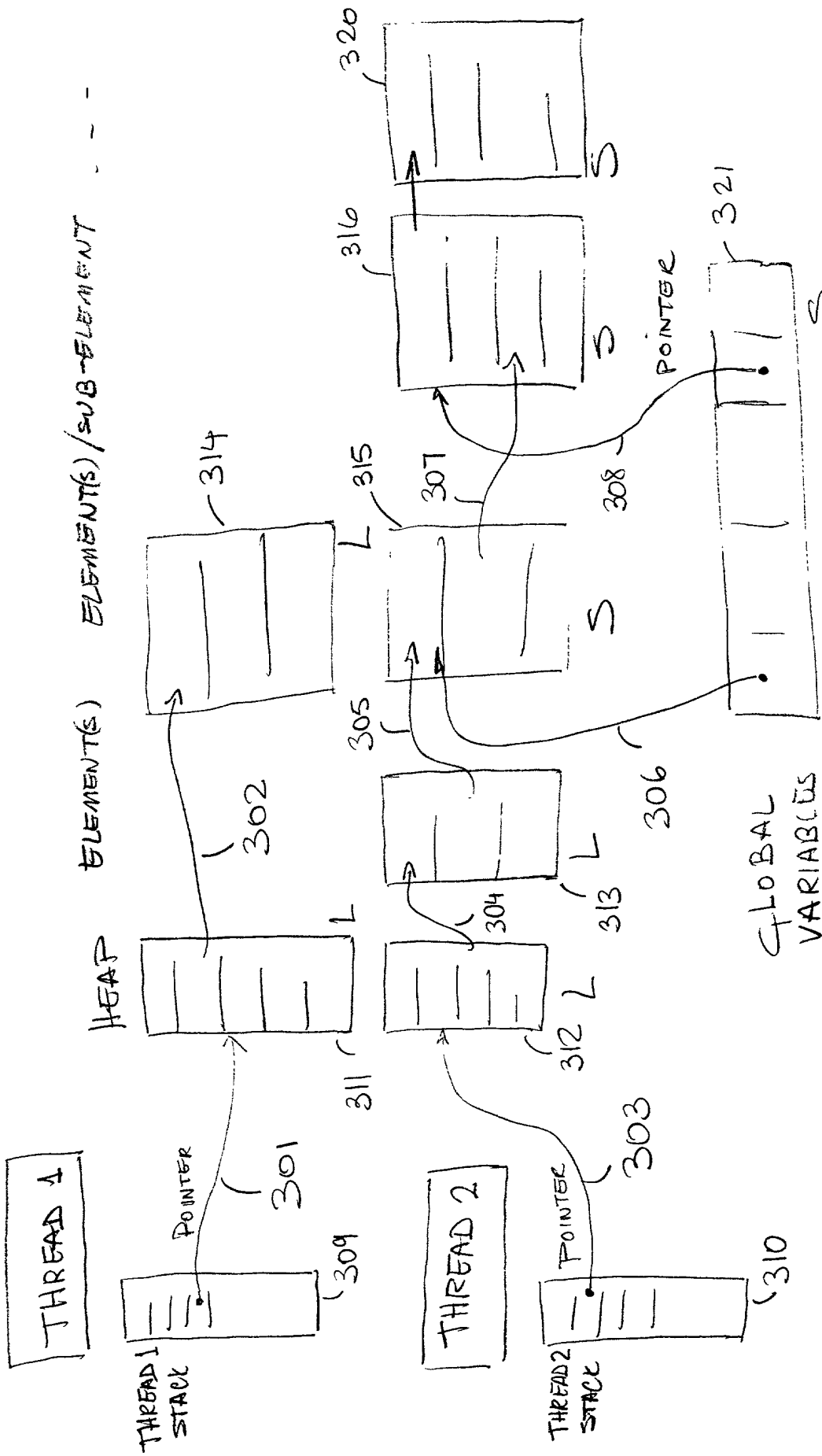


Fig. 1



checked at Thread creation points
in program text.

Fig. 2



30 - PROG. SOURCE CODE (ANNOTATED)

L: THREAD-LOCAL
S: THREAD-SHARED

Fig. 3

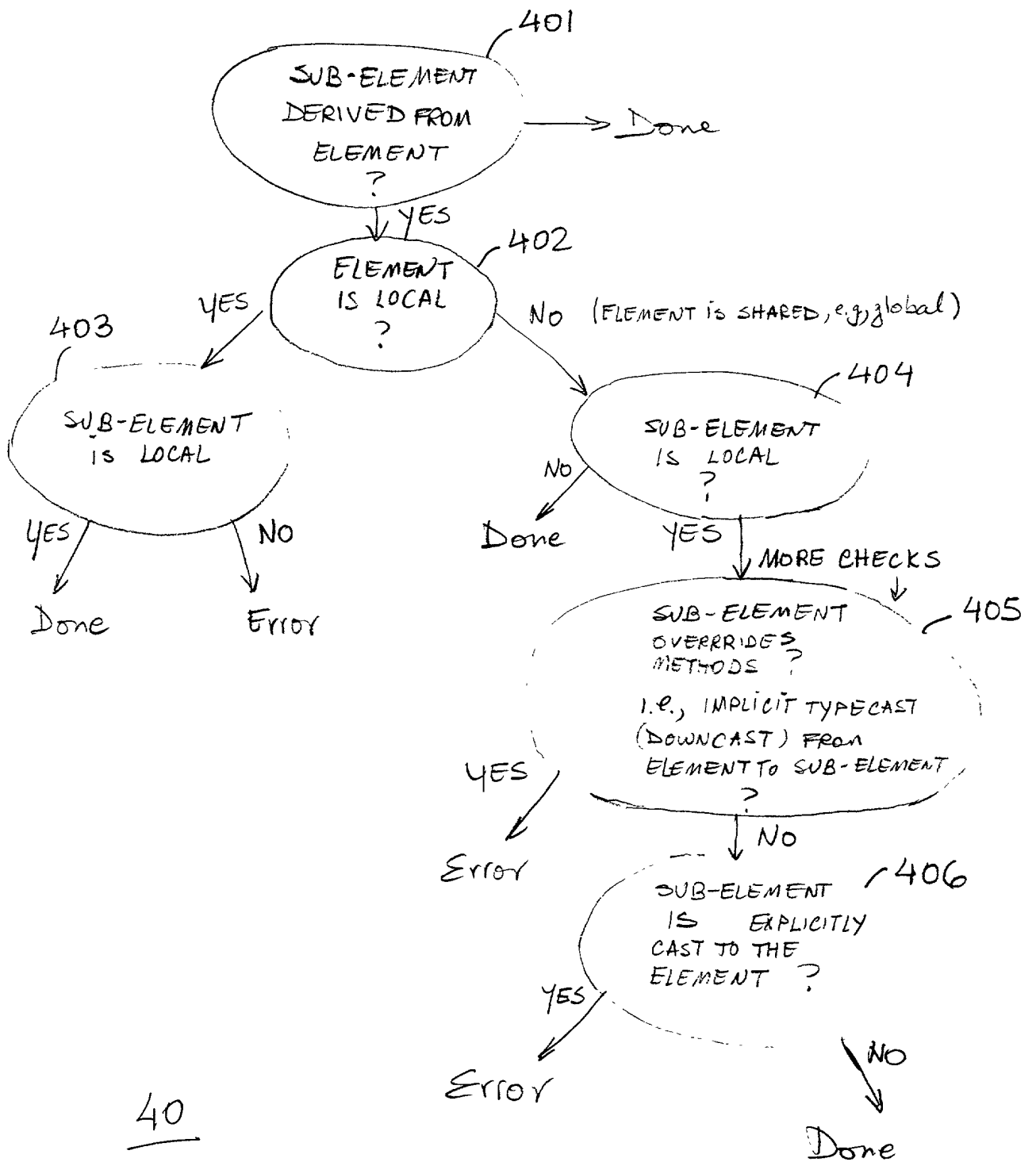
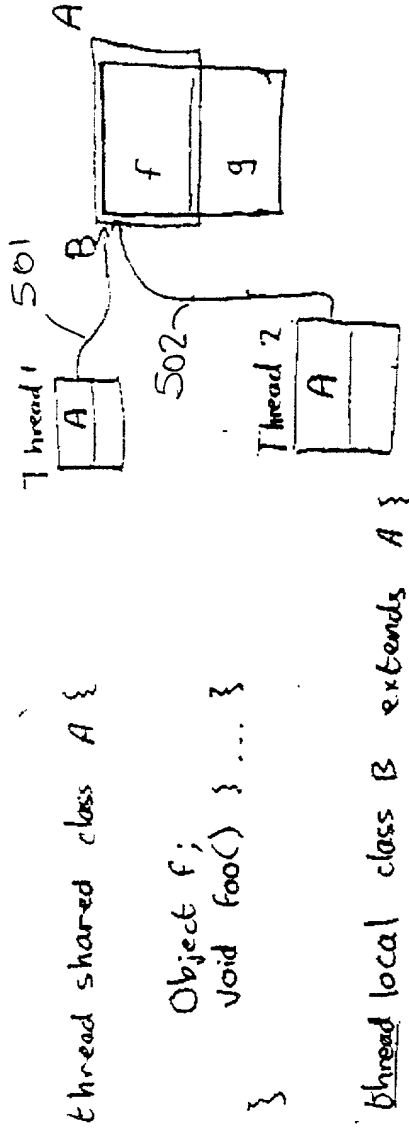


Fig. 4

more checks:

Object f; g



thread shared class A {

Object f;
void foo() { ... }
}

thread local class B extends A {

Object g;
void foo() { ... this.g ... }
}

of type B

or if no downcasts from A to B

• explicit c is of type A

d = (B) c
d.g
• implicit

c is of type A (but actually points to a B object)

c.foo();

Create a B object

Cast it to type A

Pass it between threads

Cast it back to type B
and access fields of B.

Fig. 5

error :

code of the program

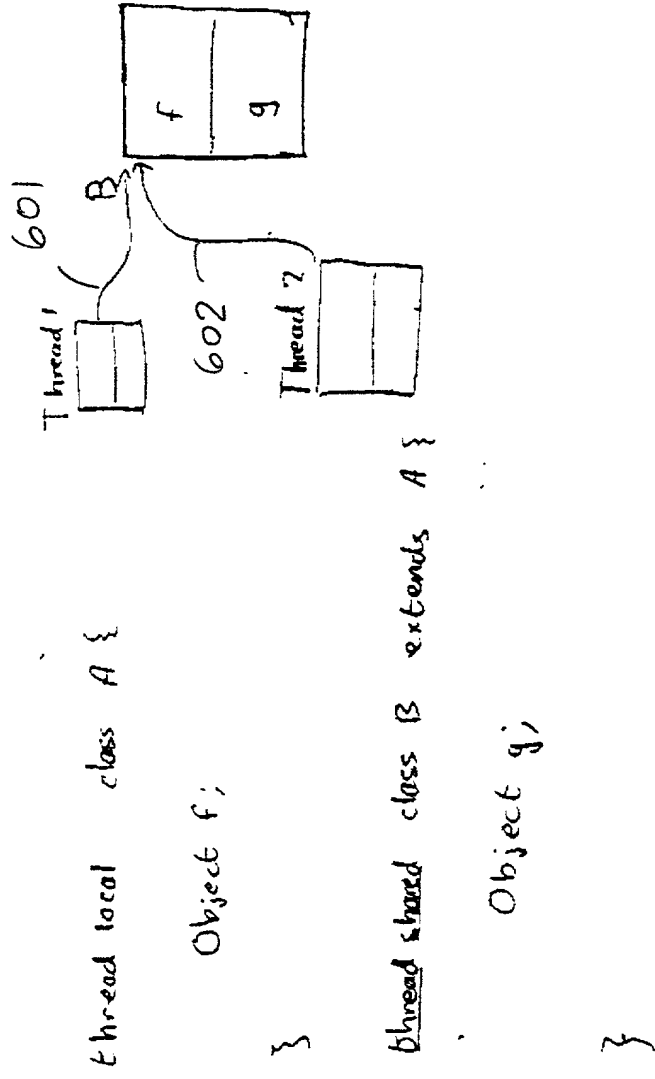


Fig. 6